# DENO

Hi-Fi Personal Component System

Europe Model

## PERSONAL COMPONENT SYSTEM D-F10

UNIT No. UTU-F10 (AM, FM Stereo Tuner)

UNIT No. UPA-F10 (Pre-Main Amplifier)

UNIT No. UCD-F10 (Compact Disc Player)

UNIT No. UDR-F10 (Cassette Tape Deck)









• The D-F10 Personal Component System consists of the following:

AM. FM Stereo Tuner Unit	UTU-F10
Remote Control Unit	RC-172
Pre-Main Amplifier Unit	UPA-F10
CD player Unit	UCD-F10
Cassette Deck Unit	UDR-F10

# MAIN FEATURES

DF/10

RDS compatible

Compatible with various RDS services, including program service name (PS), program type identification (PTY), traffic program identification (TP) and clock time (CT).

Quality power for high quality sound 55W + 55W (4 chm DIN) high quality amplifier and terminals for large

High sound quality, multi-function CD player

Edit function for automatically dividing the tracks on a CD for recording onto sides A and B of a tape. .S.L.C for playback with high quality sound.

Cassette deck with Dolby B, C and HX-Pro circuits For playback and recording of high quality sound.

Two types of timers

Two timer settings can be made - everyday and sleep.

Easy-to-use remote control unit

The most frequently used keys are located on the front, with the remaining keys enclosed under a sliding cover.

Auto on function

The power turns on automatically and playback begins when the play button on the CD player or the cassette deck or the tuner preset up/down buttons on the remote control unit are pressed.

## **BEFORE USING**

Moving the system

To prevent short-circuiting or damage of connection cords, be sure to unplug the power cord and disconnect all connection cords before moving the system.

In addition, always remove CDs before moving the system. If not, the CD may be scratched.

Before turning the power on

Check again that all connections are proper and that the connection cords are not damaged. Always set the power switch to the STANDBY position before disconnecting connection cords.

- Humming may be produced if the system is set near a TV set or other audio component or its connection cords. If this happens, try changing the position of the equipment and connection cords.
- Do not move the system abruptly from a cold place to a warm place, as this may cause dew (water droplets) to form in the set, preventing proper operation. If this happens, wait one hour before using the system.
- Be sure to keep this manual

The illustrations used in this manual may differ from the actual

Check that the following parts are included in the package aside from the main unit:

- UPA-F10 (pre-main amplifier unit) UTU-F10 (AM/FM stereo tuner) AC cord ......
- UCD-F10 (compact disc player) System connector cable ...... • AC cord ..... Inst. Sheet ..... UDR-F10 (cassette tape deck) System connector cable ......

NIPPON COLUMBIA CO., LTD.

GENERAL SECTION

#### GENERAL SECTION

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#### **PACKING & ACCESSORIES PARTS LIST**

Ref. No.	Part No.	Part Name	Remarks	Q'ty	Ref. No.	Part No.	Part Name	***************************************	Q'ty
5 5-1 5-2 5-3 5-4 5-5 5-6	UTU F10 UPA F10 UCDF10 UDRF10 GEN 2740 505 9125 009 231 1914 003 395 0021 000 203 2310 000 203 2310 004 206 2108 003	Tuner Unit Pre-Main Amp Unit CD Player Unit Casette Deck Unit Envelope Sub. Ass'y-1 :Poly Cover Loop Antenna FM Ant. Ass'y 2P Pin Cord Stereo Miniplug Cord Ass'y :AC Conn. with Plug	Tuner Amp. CD Player Cassette Deck included UTU-F10 L=1000 L=500	1 <sup>S</sup> 1 <sup>S</sup> 1 <sup>S</sup> 1 <sup>S</sup> (1) (1) (1) (1) (1)	7 7-1 7-2 7-3 7-4 7-5 8 8-1 8-2 8-3 8-4	GEN 2742 505 9125 009 203 2310 009 203 2315 004 206 2108 003 511 2654 006 GEN 2744 505 8006 019 203 2223 002 203 2315 004 511 2651 009	Inst. Sheet  Envelope Sub. Ass'y-4  Envelope 2P Pin Cord Stereo Miniping Cord Ass'y Inst. Sheet	L=500 included UDR-F10 L=1000 L=500	(1) (1) (1) (1)
L 5-7	511 2653 007	inst. Sheet		(+)	SPEAKER	SYSTEM P	ARTS LIST		,-
€ 6	GEN 2738	Envelope Sub. Ass'y-2	included UPA-F10	15	Ref. No.	Part No.	Part Name	Remarks	Q'ty
6-1 6-2 6-3 6-4 6-5	505 8006 019 511 2614 004 511 2615 003 399 0235 005	Inst. Manual Inst. Manual	E,G,F,IT ES,NL,S,PO RC-172 R6P/AA/UM-3	(1) (1) (1) (1) (2)	[ 2-1 [ 2-2	SCF 10 SCF 1000 119 SCF 1000 111 009 0107 007 511 2644 003	Envelope Out Put Cord Ass'y	Speaker System	1 <sup>5</sup> 1 <sup>8</sup> (1) (2) (1)

## **SPECIFICATIONS**

■ Pre-main amplifier (UPA-F10) 55 W + 55 W (4 ohms DIN)

Practical maximum output: Low frequency adjustment range:

High frequency adjustment range: Audio input / output jacks:

CD input jacks, tape input/output jacks,

100 Hz ±8 dB

10 kHz ±8 dB

tuner input jacks, MD/AUX input/output jacks,

processor loop jacks, 6.3mm headphones jack and phono input jacks

AC 230 V, 50 Hz Power supply:

Power consumption:

270 (W) × 96 (H) × 342 (D) mm (10-5/8" × 3-25/32" × 13-15/32") Maximum external dimensions: (including feet, controls and terminals)

4.5 kg (9 lbs. 15 oz)

Weight: ■ Tuner (UTU-F10)

FM: 87.50 MHZ - 108.00 MHZ Reception frequency band: AM: 522 kHz - 1611 kHz FM: 1.5 µ/75 ohms Reception sensitivity: AM: 20 µV

40 dB (1 kHz) FM stereo separation: AC 230 V, 50 Hz Power supply:

Power consumption:

 $270 \text{ (W)} \times 96 \text{ (H)} \times 318 \text{ (D)} \text{ mm} \quad (10-5/8" \times 3-25/32" \times 12-33/64")$ Maximum external dimensions:

2.8 kg (6 lbs. 3 oz)

(including feet, controls and terminals)

Weight:

CD player (UCD-F10)

Below measurable limits Wow & flutter: (±0.001% W. peak) 44.1 kHz

Sampling frequency: Semiconductor Optical source: AC 230 V, 50 Hz Power supply: 8 W

Power consumption:

270 (W) × 96 (H) × 315 (D) mm (10-5/8" × 3-25/32" × 12-13/32") Maximum external dimensions:

(including feet, controls and terminals)

3.3 kg (7 lbs. 5 oz) Weight:

■ Cassette deck (UDR-F10)

Tape speed:

Weight:

Horizontal 4-track 2-channel stereo cassette deck Type: 1 hard permalloy recording/playback head Heads:

1 double-gap ferrite erasing head 4.75 cm/s Dolby B and C NR, Dolby HX Pro

Included circuits: Normal, chrome and metal Usable tapes: AC 230 V, 50 Hz Power supply:

13 W Power consumption:

270 (W)  $\times$  96 (H)  $\times$  313 (D) mm (10-5/8"  $\times$  3-25/32"  $\times$  12-21/64") Maximum external dimensions:

Infrared pulse

(including feet, controls and terminals)

3.8 kg (8 lbs. 6 oz)

■ Remote control unit (RC-172)

Remote control system:

Number of buttons:

Two DC 1.5 V R6P/AA batteries Power supply:

57 (W) × 197 (H) × 21 (D) mm (2-1/4" × 7-3/4" × 53/64") Maximum external dimensions:

130 g (including batteries) (Approx. 4.6 oz) Weight:

\* Maximum dimensions include controls, jacks, and covers. (W) = width, (H) = height, (D) = depth

 For improvement purposes, specifications and functions are subject to change without advanced notice.

■ Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation, HX Pro originated by Bang & Olufsen.

■ "DOLBY", the double-D symbol 120 and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

USYNLIG LASERSTRÅLING VED ÅBNING, NÅR ADVARSEL: SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLING.

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN

UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

## NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO



- Avoid high temperatures Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées Tenir compte d'une dispersion de chaleur suffi-sante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature alte. Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.



- Handle the power cord carefully.
- Hold the plug when unplugging the cord. Gehen Sie vorsichtig mit dem Netzkabel um. Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précau-
- Tenir la prise lors du débranchement du cordon. Manneggiate il filo di alimentazione con cura. Agite per la spina quando scollegate il cavo dalla



- Keep the set free from moisture, water, and dust. Halten Sie das Gerät von Feuchtigkeit, Wasser und
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e

Unplug the power cord when not using the set for

long periods of time. Wenn das Gerät eine längere Zeit nicht verwendet

werden soll, trennen Sie das Netzkabel vom Netz-

Débrancher le cordon d'alimentation forsque l'ap-

pareil n'est pas utilisé pendant de longues

Disinnestate il filo di alimentazione quando avete

l'intenzione di non usare il filo di alimentazione per

un lungo periodo di tempo.



- Keine fremden Gegenstände in das Gerät kommen
- Ne pas laisser des objets étrangers dans l'appareil. E' importante che nessun oggetto è inserito all'interno dell'unità.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- Assicuratevvi che l'unità non venga in contatto con insetticidi, benzolo o solventi.



- Versuchen Sie niemals das Gerät auseinander zu
- Ne jamais démonter ou modifier l'appareil d'une
- Non smontate mai, nè modificate l'unità in nessun

#### Never disassemble or modify the set in any way.

- nehmen oder auf jegliche Art zu verändern.
- manière ou d'une autre.

## - CAUTION / VORSICHT / ATTENTION / AVVISO -

\*(For sets with ventilation holes)

Die Belüftungsöffnungen dürfen nicht verdeckt

Do not obstruct the ventilation holes.

Ne nes obstruer les trous d'aération

Non coprite i fori di ventilazione.

- If the system should smoke or produce strange smells, immediately set the power switch to the STANDBY position, unplug the power cord, and contact your store of purchase.
- Sollte das Gerät Rauch produzieren oder eigenartig riechen, stellen Sie den Netzschalter sofort auf die Position STANDBY (Bereitschaft), ziehen Sie den Netzstecker heraus und kontaktieren Sie Ihren Händler.
- Si de la fumée sort de la chaîne ou des odeurs bizarres, placer l'interrupteur d'alimentation immédiatement sur la position de veille (STANDBY), débrancher le cordon d'alimentation et contacter le distributeur.
- Qualora il sistema dovesse produrre del fumo o degli odori strani, collocate immediatamente l'interruttore di accensione nella posizione STANDBY, disinnestate il filo di alimentazione e rivolgetevi al negozio dell'acquisto

"SERIAL NO. -PLEASE RECORD UNIT SERIAL NUMBER ATTACHED TO THE REAR OF THE **CABINET FOR FUTURE REFERENCE"** 

#### SAFETY IMPORTANT

#### WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOIS-

## •NUR FÜR EUROPÄISCHE MODELLE

#### Konformitätserklärung

Die DENON Electronic GmbH Halskestraße 32 40880 Ratingen

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 868/1989 (Amtsblatt des Bundesministers für Post and Telekommunikation vom 31, 8, 1989) entspricht.

CLASS 1 LASER PRODUCT LUCKAN 1 LABERLAITE

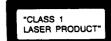
ADVARSEL:

LIEVINUS LASERSTRÄLING VED ÄBNING, NÄF SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÄLING.

VAROITUSI

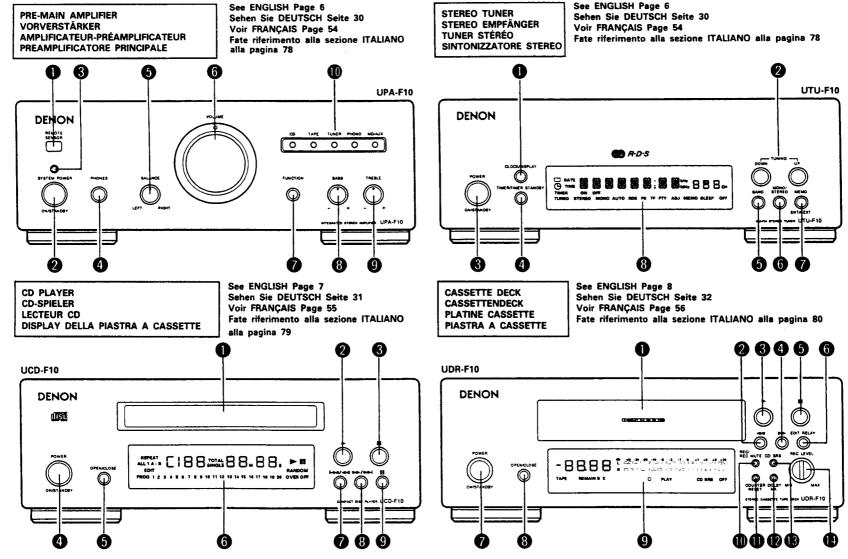
laitteen käyttäminen muulla kuin tässä Käyttöonjeessa maintulla tavalla saattaa Altistaa käyttäjän turvallisuusluokkokan 1 Yuttavälle näkymättömälle lasersäterylle.

OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÅN I DENNA BRUKSANVIBNIG SPECIFICERATS, KAN ANVÄNDAREN UTBÄTTAS FOR OBYNLIG LASERSTRÄLNING SOM ER GRÄNSEN FOR LABERKLASS 1.





## FRONT PANEL/FRONTPLATTE/PANNEAU AVANT/PANNELLO ANTERIORE



- As an aid to better understanding the operation method, the illustrations used in this manual may differ from the actual system.
- Als Hilfestellung zum besseren Verständnis der Betriebsmethode, erlauben wir uns den Hinweis, daß sich die Abbildungen in dieser Bedienungsanleitung leicht von dem aktuellen System unterscheiden.
- Pour faciliter la compréhension de la méthode de fonctionnement, les illustrations utilisées dans ce manuel peuvent être différentes de celles de la chaîne réelle.
- Per rendere la spiegazione del metodo operativo più facile, le illustrazioni usate in questo libretto delle istruzioni possono differire dal sistema stesso.

## 5 PART NAMES, FUNCTIONS AND DISPLAYS

#### PRE-MAIM AMPLIFIER

#### ■ REMOTE SENSOR

 $\alpha$ 

When operating the remote control unit, point it at this sensor.

#### 2 SYSTEM POWER switch

(This turns the power for the entire system on and off.)

Press this once to turn the power on, then press again to set the power to the standby mode.

#### Power indicator

This lights when the power cord is plugged into a power outlet, and flashes for 5 seconds after the system power is turned on.

#### PHONES (headphones jack)

Plug the headphones into this jack.

No sound is produced from the speakers when headphones are plugged in.

#### BALANCE control

Use this to adjust the balance of the volume between the left and right channels. When set at the center position, the volume is the same for the left and right channels.

#### TUNER

#### CLOCK/DISPLAY selector button

This button is used to switch the display between the reception frequency and the clock.

#### TUNING UP and DOWN buttons

These buttons are used to select AM and FM stations and to set the clock and timer.

#### POWER switch

Press this button once to turn the tuner's power on, then press again to set the tuner to the standby mode. In the standby mode, "OFF" appears on the display.

#### TIMER/TIMER STANDBY button

Press this when setting the timer and to turn the timer on so that it operates at the set times.

When the button is pressed after the timer has been set, the timer standby mark (" ( ) ") appears on the display. Press again to turn the mark off.

The timer will not operate when the " ( mark is off

#### VOLUME control

Use this to adjust the overall volume.

The volume increases when the control is turned clockwise ( $\bigcap$ ) and decreases when it is turned counterclockwise ( $\bigcap$ ).

#### FUNCTION (input) selector button

Use this to select the input (function).

The input changes in the following order each time this button is pressed: CD, TAPE, TUNER, PHONO, MD/AUX. (The function changes automatically when the system's CD player or cassette deck is played or when a preset channel is recalled on the tuner.)

#### BASS control

Use this to adjust the volume of the low frequencies.

#### TREBLE control

Use this to adjust the volume of the high frequencies.

#### Function indicators

These light to indicate the currently selected function.

#### BAND (AM/FM) selector button

The band switches between AM and FM each time this button is pressed.

#### MONO/STEREO selector button

AUTO mode: Use this mode to receive programs in stereo.

The sound and the indicators on the display automatically switch between monaural ("MONO") and stereo ("STEREO") according to whether the program is being broadcast in monaural or stereo.

# MONO mode: Use this mode to receive programs in monaural, regardless of whether they are being broadcast in monaural or

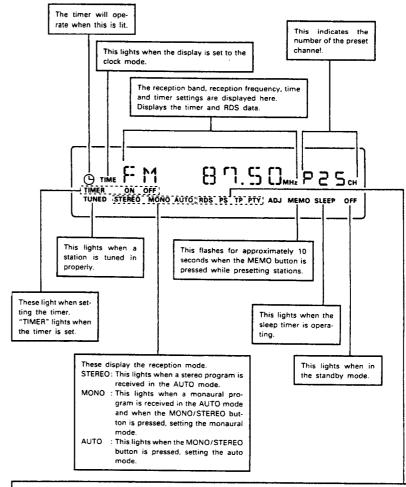
Set this mode if there is much noise or if the signals are weak when receiving stereo programs (when "AUTO" is lit).

#### MEMO ENT/NEXT button

This button is used to preset AM and FM stations and when setting the timer.

#### Display

#### TUNER DISPLAY



#### • RDS (Radio Data System)

When the RDS button is pressed, a station is searched for and automatically tuned in, the "RDS" indicator lights and the station's name is displayed on the frequency display.

PTY (Program Type)

This indicator lights when the type of RDS program is specified.

- TP (Traffic Program)
- "TP" lights when an RDS traffic information station is received.
- PS (Program Service name)

This lights when the station name is displayed.

#### -- NOTE:

 The timer standby mark (" (D ") does not light if the current time and the timer have not been set.



This system includes digital circuitry which may cause interference such as color blotching or changes in the color on TVs. If this happens, move the system and the TV as far apart as possible.

Use a record player with an MM cartridge

· For instructions on connection and operation of an optional MD player, refer to the MD player's operating instructions.

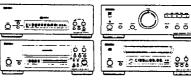
MD player, video deck, LD player, etc.

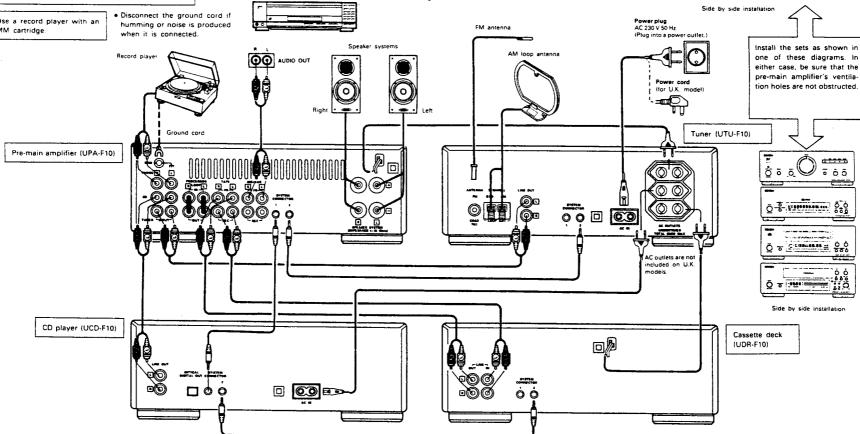
## Connecting the speaker systems

Connect the speaker system for the left channel (the left side as seen from the front) to the "L" terminals, the speaker system for the right channel to the "R" terminals. Be sure to use speaker systems with an impedance of 4 ohm or greater.

#### - CAUTION: -

Whenever the power switch is in the STANDBY position, the unit is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a





#### System operations

Such system operations as the timer and the auto on functions, as well as remote control operations cannot be performed unless all the RCA pin-plug cords and system connector cords are connected between the units, so be sure to make all the connections properly as shown in the diagram. Also, disconnecting system connectors while the system is operating may result in malfunction. Be sure to turn unplug the power cord before changing connections.

#### OPTICAL DIGITAL OUT jack

Digital data is output in optical form from this lack.

#### PROCESSOR LOOP jacks

The PROCESSOR LOOP jacks on the UPA-F10 are interconnected with short-circuiting pins. Only remove these pins when using these jacks for connection to another component.

#### - NOTES:

- . Do not plug the power cord into the power outlet until all connections are completed. Be sure to interconnect the channels (L to L (white) and R to R (red)) properly, as shown on the diagram.
- Insert the plugs securely. Incomplete connections may result in noise.
- Be sure to connect the speaker cords between the speaker terminals and the speaker systems with the same polarities (+ to +, - to -). If the polarities are switched, the sound at the center will be weak, the position of the different instruments will be unclear, and the stereo effect will be lost.
- After unplugging the power cord, wait about 5 seconds before plugging it back in.
- . Note that setting the connection cords (pin-plug cords) next to the power cords may result in humming or other

#### CD PLAYER

- Disc trav Load discs here.
- ▶ (play) button Press this button to start playing the disc. Even when the disc tray is open, the disc tray closes and playback begins when this button is pressed. When pressed in the standby mode, the power

automatically turns on and playback begins. (Auto on function)

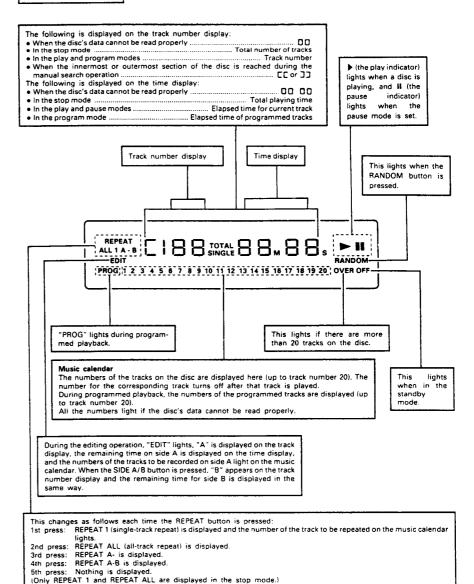
- (stop) button Press this button to stop playback.
- POWER switch Press this once to turn the CD player's power on, then press again to set the CD player to the standby mode. in the standby mode, "OFF" appears on the display.
- OPEN/CLOSE button Press this to open and close the disc tray. When pressed once, the disc tray opens out, and

when pressed again, the disc tray closes. If a disc is loaded, the total number of tracks and total playing time of the disc are displayed several seconds after the disc tray is closed.

When pressed in the standby mode, the CD player's nower turns on.

- Display
- 144 / 44 (automatic/manual search reverse) button Use this to move to the beginning of a specific track. When pressed during playback or in the pause mode, the pickup moves backward a number of tracks equal to the number of times the button is pressed.
- >> / >> I (automatic/manual search forward) button Use this to move to the beginning of a specific track. When pressed during playback or in the pause mode, the pickup moves forward a number of tracks equal to the number of times the button is pressed.
  - The automatic search mode is set if the 7 or 8 button is released within 0.5 seconds, and the manual search mode is set if the button is held for over 0.5 seconds.
- li(pause) button Press this button to stop playback temporarily. Press the play button to cancel the pause mode and resume playback.

#### CD PLAYER DISPLAY



GENERAL SECTION

0

GENERAL

SECTION

#### CASSETTE DECK

Cassette tray

The cassette tray opens out when the OPEN/CLOSE button is pressed Load the cassette tape with the side on which the tape is exposed facing away from you. To close the cassette tray, press the OPEN/CLOSE button again. For details, refer to Page 16.

(rewind) button

Press this button to rewind the tape.
Press this button during playback to set the music search mode.

(play) button

Press this button to start playback.

When pressed in the standby mode, the power of both the cassette deck and the pre-main amplifier turns on automatically and playback starts. (Auto on function)

(fast-forward) button

Press this button to fast-forward the tape.

Press this button during playback to set the music search mode.

(stop) button

Press this button while the tape is moving to stop the

EDIT RELAY button

The cassette tray opens when all the tracks for side A of the tape have been recorded with the CD edited recording function. To continue recording on side B, turn the tape over then press this button to close the cassette tray and start recording.

POWER switch

Press this once to turn the cassette deck's power on, then press again to set the cassette deck to the standby mode. In the standby mode, "OFF" appears on the display.

OPEN/CLOSE button

Press this to open and close the cassette tray. When pressed in the standby mode, the cassette deck's power turns on.

Display

REC/REC MUTE button

This button is used when recording and when creating blank spaces between selections. If only the REC/REC MUTE button is pressed, the recording pause mode is set.

When REC/REC MUTE button is pressed while in the recording pause mode, the recording mute mode is set for approximately 5 seconds, creating a blank space on the tape, after which the recording pause mode is note again set. When the \$ (play) button is pressed while in the recording pause mode, recording begins.

The recording pause mode is set when this button is pressed for less than 0.5 seconds while in the recording mode. If it is pressed for over 0.5 seconds while in the recording mode, the recording mute mode is set for approximately 5 seconds, after which the recording pause mode is once again set. Press the set sold button to cancel the recording pause mode.

begins automatically.

COUNTER RESET button
Press this button to reset the tape counter to

- NOTE: -

. If the play button on the CD player is pressed during

the recording pause mode, recording of the CD

DOLBY NR mode selector button

Use this to select the Dolby NR mode (OFF, B or C). When playing a tape, set the Dolby NR mode to the same mode as when the tape was recorded.



CD-SRS (Synchronized Recording System) button Use this button for synchronized recording of CDs. For details, refer to Page 19.

REC LEVEL control

00.00

Use this to set the recording level. For details, refer to Page 19.

## 6 REMOTE CONTROL UNIT

The D-F10 comes with a system remote control unit (RC-172).

#### Inserting the batteries

---- NOTES: -

quently the remote control unit is used

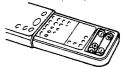
- Use R6P (AA) batteries in this remote control unit.
   Replace the batteries with new ones approximately once each year, though this depends on how fre-
- Replace the batteries with new ones earlier if the remote control unit does not operate even from a short distance.
- Insert the batteries in the proper + and direction, following the marks in the battery compartment.
- Remove the batteries when not using the remote control unit for extended periods of time.
- To avoid damage and leakage:
- Do not use a new battery with an old one.

  Do not use two different types of batteries.
- Do not short-circuit, take apart, heat or dispose of batteries in flames
- If the batteries should leak, carefully wipe the fluid out of the battery compartment, then insert new batteries.

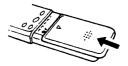
1 Remove the remote control unit's sliding cover.



② Insert the two R6P (AA) batteries, following the + and marks in the battery compartment.



3 Set the sliding cover back in place.

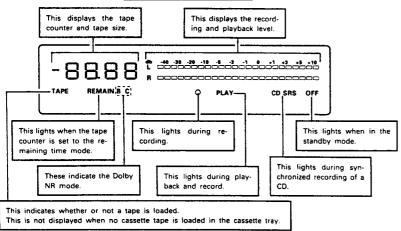


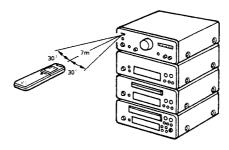
#### Using the Remote Control Unit

- Cautions on Use

- The remote control unit may not operate if the remote sensor is exposed to direct sunlight or the strong light from a lighting fixture, or if there is an obstacle between the remote control unit and the remote sensor.
- Do not press buttons on the remote control unit and on the set at the same time. Doing so could result in malfunction.
- If the remote control unit is pointed away from the remote sensor during continuous operations (such as when turning the volume up or down), the operation will stop. If this happens, point the remote control unit at the remote sensor and press the but ton again.

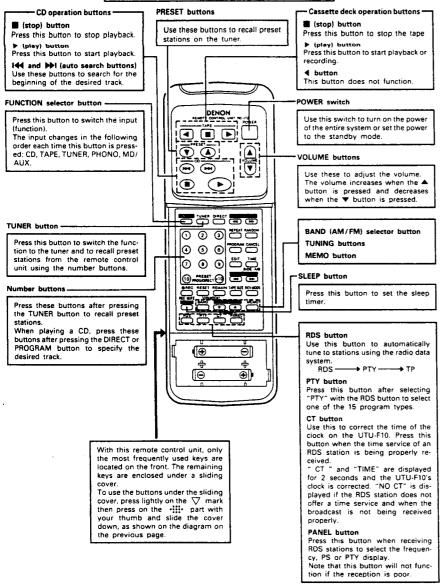
## CASSETTE DECK DISPLAY

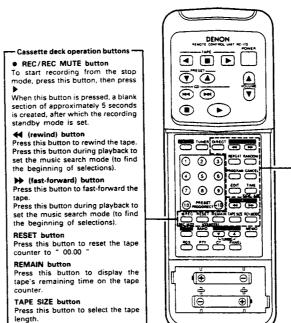




- The remote sensor is located on the pre-main amplifier. Point the remote control unit at the remote sensor as shown on the diagram when operating it.
- The remote control unit will operate from a direct distance of approximately 7 meters, but this distance will be shortened if obstacles are present or if operated at an angle.

(The remote control unit will operate at an angle of up to 30° in either direction.)





For details, refer to Page 17.

This button does not function.

REV. MODE button

- CD player operation buttons -**DIRECT** button

Press this button for direct search on the CD player.

← and → (manual search) buttons

Press these buttons during playback to move quickly forward or backward.

REPEAT button

Press this button for repeat play-

RANDOM button

Press this button to play the tracks in random order.

PROGRAM button

Press this button for programmed playback on the CD player.

**CANCEL** button

Press this button to clear the last track from the program.

**EDIT** button

Press this button for edited recording on a tape, dividing the tracks onto sides A and B according to the length of the tape.

TIME/SIDE A/B button

• TIME

Press this button during the play or pause mode to switch the time display.

Normally the elapsed time for the track currently playing is displayed. When this button is pressed, the display switches to the remaining time for that track ("SINGLE" lights), the total remaining time on the disc ("TOT-AL" lights), then back to the elapsed time per track.

During programmed playback, the total remaining time display indicates the total remaining time of the programmed tracks.

SIDE A/B

Press this button during the editing operation to switch the display between sides A and B of the tane

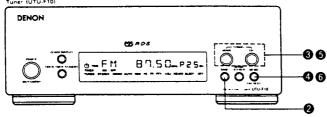
The TIME/SIDE A/B button functions as the SIDE A/B button when it is pressed after the EDIT button is pressed and the tracks have been divided between sides A and B and before the play or pause button is pressed (before the recording mode is set).

The TIME/SIDE A/B button functions as the TIME button when it is pressed during the play, pause, or edited recording modes.

## LISTENING TO RADIO PROGRAMS

(Check the connections on Pages 4 and 5.)

TUNING



Example: Tuning in FM 87.50 MHz (AM stations are tuned in using the same procedure.)

1	Set the VOLUME control on the pre-main amplifier to the minimum position, then press the SYSTEM POWER switch to turn on the power.	SYSTEM POWER	
2	Press the BAND button on the tuner to select the FM band.	BAND	FM 90.00
3	Use the TUNING UP and DOWN buttons to tune the frequency to 87.50. Once the frequency is tuned in, adjust the volume to the desired level using the VOLUME control.	DOWN UP	This lights when a station is tuned in.

#### **Auto Tuning**

- When one of the TUNING buttons is pressed, the frequency changes in steps of 50kHz in the FM band, 9kHz in the AM band. • If one of the TUNING buttons is held in for over 1 second, the frequency continues to change when the button is released
- (auto tuning) and stops when a station is tuned in. Tuning will not stop at stations whose reception is poor.

   To stop the auto tuning function, press the UP or DOWN button once.

#### Presetting AM and FM Stations

Example: Presetting FM 87.50 (currently tuned in) at preset number 3

4	Press the MEMO ENT/NEXT button. The MEMO indicator flashes for 10 seconds.	MEMO ENTINEZI	FIASHES
5	Use the UP and DOWN buttons to call out the number at which you want to preset the station (3), or simply press the corresponding number button (3) on the remote control unit.	DOWN TUNING UP	FM B7.50 P 3cm
6	Press the MEMO ENT/NEXT button while the MEMO indicator is flashing.	MEMO GENTINEXT	FM B7.50 P 3cm

#### NOTES:

- In addition to the reception frequency, the reception mode (monaural or auto) is also preset, so check the display when presetting stations.
- If a station is preset at a number where a station is already preset, the previous station is replaced with the new station. The preset memory is not cleared immediately when the power cord is unplugged, but is cleared if the cord is left 10 unplugged for an extended period of time. If this happens, preset the stations again.

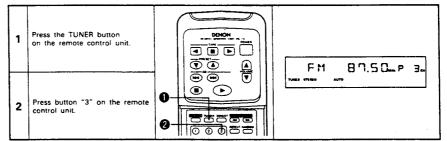
#### Listening to Preset Stations

The preset stations can be recalled using the number buttons on the remote control unit.

Also, if the following operation is performed when the system power is off, the power automatically turns on and the radio is played. (Auto on function)

Example: Listening to the station preset at number 3

(This operation is only possible from the remote control unit.)



#### Using the RDS functions

Receiving RDS broadcasts (FM only)

Press the BAND button and set the FM band.  FM B7.50					
Press the RDS button once.					
Press the AUTO TUNING UP or DOWN button.  FM B7.50 Flashes Flashes *RDS" displayed					
The station is tuned in.  **RDS** lights after 5 seconds of flashing.  Once the station is tuned in, "RDS" flashe seconds and the program service name is di					
NOTE: If no RDS station is found, "ND PRDG" is displayed.					

#### Programs

NENZ	(News)	VARIED	(Varied)
AFFAIRS	(Current Affairs)	P 0 P M	(Pop Music)
INFO	(Information)	ROCK M	(Rock Music)
3P0RT	(Sport)	M DR M	(M.O.R. Music)
EDUCATE	(Education)	LIGHT M	(Light Classics)
DRAMA	(Drama)	CLASSICS	(Serious Classics)
CULTURE	(Culture)	OTHER M	(Other Music)
SCIENCE	(Science)		

#### TP Search

1	Press the RDS button 3 times.	ROS	€ Ţ P }
2	Press the UP or DOWN button of AUTO TUNING.	L-TUNING TO	FM B7.50m.
3	Broadcast reception.		Once the station is tuned in "TP" and "RDS" light and
			Once the station is tuned in, "TP" and "RDS" light and the program service name is displayed.

#### Receiving FM programs in stereo

- Press the MONO/STEREO button to turn on the "AUTO" indicator. When a program being broadcast in stereo is received, the "STEREO" indicator lights and the program is received in stereo.
- If reception is poor and there is much noise in the stereo signals, press the MONO/STEREO button to set the monaural mode.

#### ---- NOTE: ---

 A humming sound may be heard when using a TV nearby while receiving AM programs. If this happens, move the system as far from the TV as possible.

GENERAL

SECTION

The time and timer functions are incorporated in the tuner.

#### Timer Settings

#### ■Types of timer operations

TIMER: Use this to turn the power on and off at the same times every day.

SLEEP TIMER : Use this to set the power to turn off after 10 to 60 minutes, in steps of 10 minutes (operated from the

remote control unit).

#### ■ Notes on timer settings

• Be sure to set the current time beforehand.

• To listen to or record a radio program ("air check") using the timer, be sure to preset the station beforehand. (Refer to "Presetting AM and FM Stations" on Page 10.)

#### Power Failures

Should there be a power failure or should the power cord be unplugged, the time display will flash at " 00:00". If this happens, reset the current time.

Also check the timer and tuner presettings, and reset them if they have been cleared.

#### Checking the Settings

To check the timer settings, press the TIMER/TIMER STANDBY button for at least 3 seconds. (This can also be done when the tuner's power is off.) Next, press the ENTER/NEXT button repeatedly to display the timer start mode, the reception band and preset channel number when in the tuner mode, the on time and the off time. Press the ENTER/NEXT button once more to return to the current mode display.

#### Changing the Settings

Repeat the timer setting operation to erase the previous settings and set the new settings.

#### Clearing the Settings

Press the TIMER/TIMER STANDBY button for at least 3 seconds, then press it again while "FUNC" is displayed to clear the timer settings.

#### Note on Setting the Timer

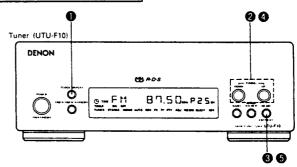
If the time set with the timer is reached while the system power is on, the operation switches to the operation set by the timer.

#### Turning the Timer Off

Press the TIMER/TIMER STANDBY button to turn the (5) mark off.

#### Setting the Current Time

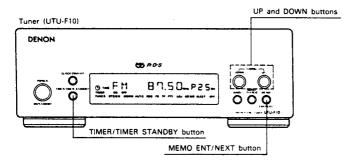
#### The time is displayed in the 24-hour mode.



#### Example: Setting to 19:30 (7:30 p.m.)

1	Press the CLOCK/DISPLAY button for at least 3 seconds.	CLOCK/DISPLAY	(If the hours have already	The hours place flashes.
2	Use the UP and DOWN buttons to set the hours.	DOWN UP	;  <b>\$</b> ;00	The hours place flashes.
3	Press the MEMO ENT/NEXT button.	MEMO ENTANEXT	(If the minutes have alrea	The minutes place flashes.  dy been set, that number flashes.)
4	Use the UP and DOWN buttons to set the minutes.	DOWN UP	19学0年	The minutes place flashes.
5	Press the MEMO ENT/NEXT button at the sound of a time service's chime. The time display stops flashing and the clock starts running.		19:30	The display stops flashing and the clock starts running from 00 seconds.

- The current time can be set even when the power is off.
- If an RDS station offers a time service, the time can be set by pressing the CT button on the remote control unit while that station is tuned in.



Example: Setting the tuner to turn on at 12:35, off at 12:56 (with FM 87.50 MHz preset at channel "3")

	·		
1	Press the SYSTEM POWER switch on the pre-main amplifier to turn on the system's power.	SYSTEM POWER	F11 90.00 mm P to
2	Press the TIMER/TIMER STANDBY button for at least 3 seconds to set the timer setting mode.	TREPUTIMER STANDBY	FUNC
3	Use the UP and DOWN buttons to set the "TUNER" mode.	CONT UP	TUNER
4	Press the MEMO ENT/NEXT button.	MEMO ENT/MEXT	Flashes B 7.50 22 3.
5	Use the UP and DOWN buttons to set the preset channel number.	DOWN UP	nus O La Umiji, So
6	Press the MEMO ENT/NEXT button.	ME NO ENTINEXT	if the timer has already been set, that number flashes.
7	Use the UP and DOWN buttons to set the hours for the timer on time.	COWN UP	Flashes

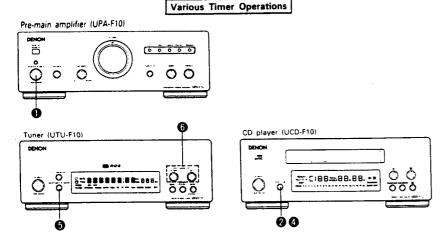
8	Press the MEMO ENT/NEXT button.	MEMO ENT/MEXT	Flashes (If the timer has already been set, that number flashes.)
9	Use the UP and DOWN buttons to set the minutes for the timer on time.	DOWN TUNING JP	12-35- Flashes
10	Press the MEMO ENT/NEXT button.	MENO ENTREXT	These or Fishes
11	Use the UP and DOWN buttons to set the hours for the timer off time.	DOWN UP	Treets or Flashes
12	Press the MEMO ENT/NEXT button.	ME NO ENTINEXI	Flashes  (If the timer has already been set, that number flashes.)
13	Use the UP and DOWN buttons to set the minutes for the timer off time.	DOWN UP	Flashes (if the timer has already been set, that number flashes).
14	Press the MEMO ENT/NEXT button.	MENO EMTANEXT	FM 90.00mP to
15	Press the TIMER/TIMER STANDBY button.	TIMER/TIMER STANDBY	FM 90.00_P to
16	Press the SYSTEM POWER switch on the pre-main amplifier to turn off the system's power.	SYSTEM POWER	<u> </u>

If the  $\, \Theta \,$  mark is displayed after the TIMER/TIMER STANDBY button is pressed, the timer will operate at the same times every day. To turn the timer off, press the TIMER/TIMER STANDBY button again to turn the  $\, \Theta \,$  mark off.

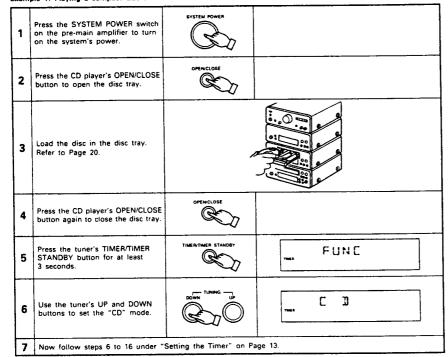
- NOTES:

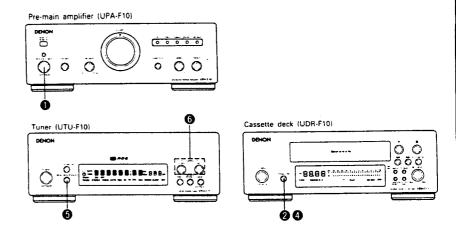
- The standby mark (" () ") will not light if the current time is not set. If this is the case, set the current time, then press the TIMER/TIMER STANDBY button.
- When an optional mini-disc (MD) player is connected, it can be operated with the timer. For instructions, refer to the MD player's operating instructions.

D-F10



Example 1: Playing a compact disc with the timer



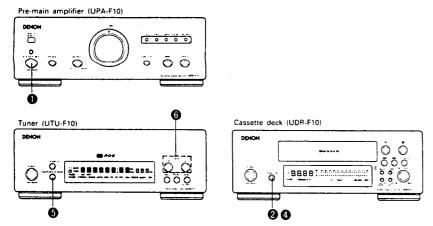


Example 2: Playing a cassette tape with the timer

1	Press the SYSTEM POWER switch on the pre-main amplifier to turn on the system's power.	SYSTEM POWER			
2	Press the cassette deck's OPEN/ CLOSE button to open the cassette tray.	GPENCLOSE			
3	Load the cassette tape in the cassette tray. Refer to Page 16.				
4	Press the cassette deck's OPEN/ CLOSE button again to close the cassette tray.	OPENCLOSE			
5	Press the tuner's TIMER/TIMER STANDBY button for at least 3 seconds.	TIMER/TIMER STANDBY	FUNC.		
6	Use the tuner's UP and DOWN buttons to set the "TAPE" mode.	CONT TUNING TO	TAPE		
7	Now follow steps 6 to 16 under "Setting the Timer" on Page 13.				

<sup>•</sup> Check that the cassette deck is set to the desired Dolby NR mode.

0



Example 3: Unattended recording of radio programs ("air check")

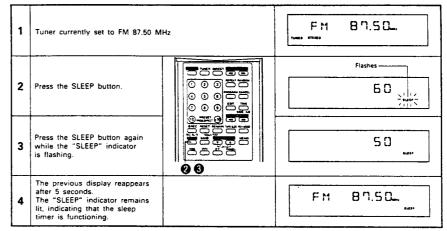
1	Press the SYSTEM POWER switch on the pre-main amplifier to turn on the system's power.	SYSTEM POWER	
2	Press the cassette deck's OPEN/ CLOSE button to open the cassette tray.	OPENCLOSE	
3	Load the cassette tape in the cassette tray. Refer to Page 16.		
4	Press the cassette deck's OPEN/ CLOSE button again to close the cassette tray.	OPENCLOSÉ CONTRACTOR DE CONTRA	• For the Dolby NR setting, refer to 2 on Page 19.
5	Press the tuner's TIMER/TIMER STANDBY button for at least 3 seconds.	TIMERITIMER STANOBY	- FUNC
6	Use the tuner's UP and DOWN buttons to set the "AIRCH" mode.	COWN TUNING TUP	,man AIRCH
7	Now follow steps 4 to 16 under "	Setting the Timer" on Pa	age 13.

- Recording is not possible on the leader tape at the beginning of the cassette tape, so to avoid missing any of the program, we recommend setting the timer to approximately 1 minute before the program is scheduled to start.
- When an optional mini-disc (MD) player is connected, radio programs can be recorded using the timer. For instructions, refer to the MD player's operating instructions.

#### Setting the Sleep Timer

With this function, the power can be set to turn off after 10 to 60 minutes, in steps of 10 minutes, using the remote control unit.

Example: Setting the power to turn off in 50 minutes
(This operation is only possible from the remote control unit.)



• The time is reset to "60" (60 minutes) if the SLEEP button is pressed again while the sleep timer is functioning.

#### Cancelling the Sleep Timer

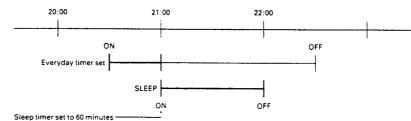
Press the SLEEP button repeatedly until the "SLEEP" indicator turns off.

The sleep timer is also cancelled if the amplifier's SYSTEM POWER switch or the POWER switch on the remote control unit is pressed, turning the system power off.

# NOTE: • If the times set with the sleep and everyday timers overlap, the sleep timer has priority.

#### Order of priority of the sleep and everyday timers

The sleep timer has priority for the off time. (The system operates as indicated by the bold lines.)



Even when the power was turned on with the timer, the power turns off if the remaining time of the sleep timer reaches "00" before the off time set with the everyday timer is reached. If the everyday timer is no time is reached while the sleep timer is functioning, the everyday timer does not function.

GENERAL

S

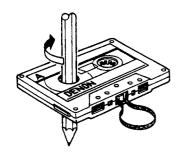
SECTION

## 9 BEFORE RECORDING AND PLAYING TAPES

#### **About Cassette Tapes**

#### ■Cautions on handling cassette tapes

- C-120 cassette tapes
- C-120 (120-minute) cassettes use very thin tape which can easily get caught on the capstans and pinch rollers. We recommend not using C-120 tapes.
- Tape slack
- If the tape is slack, it may get caught in the mechanism and damaged. Take up any slack in the tape with a pencil, etc., before loading the cassette.



#### ■ Preventing accidental erasure

- · Cassette tapes have tabs for preventing accidental erasure. Use a screwdriver, etc., to break off the tabs to prevent recordings from being accidentally erased.
- . To record on a tape whose tabs have been broken, place a piece of cellophane tape, etc., over the tab holes.



#### ■Notes on storing cassette tapes

- · Avoid placing cassette tapes in the following types of
- · Hot or humid places
- Dusty places
- · Places exposed to direct sunlight
- Near magnetic sources (TVs, speakers, etc.)
- . Store cassette tapes in cases with stoppers to prevent the tape from getting slack.

### Auto Tape Selector Mechanism

The D-F10 is equipped with an auto tape selector mechanism which uses the detection holes in the cassette halves to detect the type of tape and automatically set the most appropriate recording bias and equalization for that type of

- . Do not use ferrichrome tapes.
- . When an old metal tape with no detection holes is used. the treble will be stressed excessively, so use metal tapes with detection holes.







Chrome tape

## Loading and Unloading Cassette Tape

#### - NOTE: -

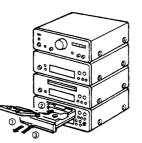
. Load cassette tapes with the side on which the tape is exposed facing the set. Loading them the other way may result in damage.

- Loading

  ① Press the OPEN/CLOSE button. The cassette tray opens.
- ② Load the cassette tape in the cassette tray as shown on the diagram below, with the side on which the tape is exposed facing inside.
- 3 Press the OPEN/CLOSE button to close the cassette

#### ■ Unloading

- 1 Press the OPEN/CLOSE button. The cassette tray
- 2 Remove the tape.

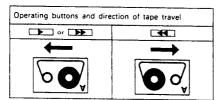




Check the following before recording or playing cassette tapes:

- 1. Are the heads dirty? .. The sound quality will be poor if the heads are dirty. Refer to Page 25.
- 2. Are the accidental erasure protection tabs broken off? ...
- .. Recording is not possible if the accidental erasure protection tabs on the top of the cassette are broken off. Refer to Page 16.

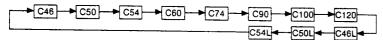
The side facing the top when the cassette tape is loaded in the cassette tray is played or recorded.



Using the Tape Counter

#### 1. Tape size selector

- When using the tape counter, be sure to set the size of the tape being used.
- Press the TAPE SIZE button on the remote control unit to display the tape size, then press the button again to select the
  desired tape size. The display changes as follows each time the button is pressed:

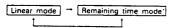


- \* "C46L", "C50L" and "C54L" are for tapes with large hubs.
- \* Tape sizes other than the ones indicated above cannot be set.

#### 2. Tape counter

The D-F10's tape counter includes the two modes described below.

The mode switches as follows each time the REMAIN button on the remote control unit is pressed:



The mode can be changed whether the tape is stopped or moving.

#### (1) Linear mode

• This indicates the tape's elapsed time in minutes and seconds.



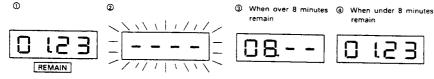
- The counter is reset to "QQQQ" when a new tape is loaded and when the RESET button is pressed
- If you make notes on the number on the counter and the recorded content while recording or playing tapes, these notes can be used to easily find the section you want to play or record.

#### (2) Remaining time mode

This indicates the remaining time on the tape.

When this is the remaining time on the tape.

When this mode is selected, "REMAIN" appears on the display (①).



- " - " (②) flashes for approximately 10 seconds after the tape is started while the remaining time is being calculated. After this, only the minutes are displayed if there are more than 8 minutes remaining (③), and both the minutes and seconds are displayed if there are less than 8 minutes remaining (④).
- " - " flashes on the display during the fast-forward and rewind operations.

#### 3. Tape end warning

This "REMAIN" indicator starts flashing to indicate that there is little time remaining on the tape during recording or playback. (There may be a major error in the time at which the "REMAIN" indicator starts flashing if the actual tape and the tape size selector setting do not match, so be sure to set the proper tape size for the tape being used.)

- The "REMAIN" indicator flashes starts approximately 5 minutes before the end of the tape when the counter is set to the linear mode. Press the REMAIN button on the remote control unit as necessary to switch the counter to the remaining time mode to check the remaining time.
- The "REMAIN" indicator remains lit without flashing when the remaining time mode is set.
- The tape end warning is only a rough indicator, and differs according to the thickness of the tape's hubs and the thickness of the tape. In some cases, it may not function.

#### - NOTE: -

The D-F10's tape counter and tape end warning are set for use with C46, C50, C54, C60, C74, C90, C100, C120, C46L, C50L or C54L cassette tapes ("L" indicates tapes with large hubs), so they may be off when using tapes of other sizes or when the tape size setting is not the same as the size of the tape being used. When using tapes of other sizes, select the nearest tape size to minimize the error.

The tape counter is not as accurate as a clock, and may be slightly different from the actual time, since the tape thickness differs depending on the type of cassette tape (tape position and time). The counter may also be off due to differences in the hub size (small or large).

 Large hubs are hubs with a diameter of approximately 27mm. Note that there may be a major error in the remaining time display if tapes with larger hubs are used.



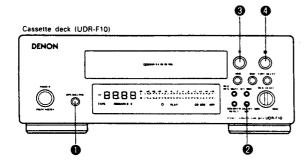
Normal but

Large hub

GENERAL

SECTION

## 10 PLAYING CASSETTE TAPES



1	Press the OPEN/CLOSE button and load a recorded tape in the cassette tray. Refer to Page 16.	OPENICLOSE	of unit.		
2	Press the DOLBY NR button display the Dolby mode. Refer to Page 8.	The mode changes as follows each time the button is pressed:	When playing tapes recorded with Dolby NR, set the Dolby mode to the same mode (8 or C as when the tape was recorded.		
3	Press the play button (▶).		Playback starts.		
4	To stop playback, press the stop button (■).				

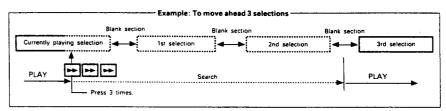
#### Using the Music Search Function (automatically finding the beginning of selections)

- ■Use this function to move back to the beginning of the current selection or forward to the beginning of the following selection.
- This function can also be used to skip over selections (up to 99 selections in either direction).

To move to the beginning of the current selection:
Press once.
To move back 5 selections.
Press 6 times.

To move to the beginning of the following selection:
Press once.
To move ahead 5 selections:
Press 5 times.

- To fast-forward or rewind the tape, first press the stop button (■), then press the ▶ or ◀ button.
- The music search function will only work if there are blank sections of at least 4 seconds between selections.



### Music Search Display

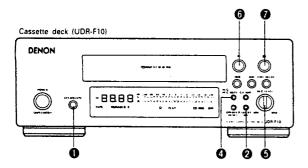
- When a selection before the current selection is specified:
- When a selection after the current selection is specified:
- P Number of selections to be skipped

Р		5	4	Number	of	selections	to	be	skippe
---	--	---	---	--------	----	------------	----	----	--------

During the music search function, the number of selections to be skipped is displayed on the tape counter, and decreases each time a blank section is detected. (For example, P03 \rightarrow P02 \rightarrow P01 when moving 3 selections ahead.)

The tape counter reappears when the operation is completed.

## 11 RECORDING CASSETTE TAPES



- Before recording on a cassette tape, check that its accidental erasure protection tabs are intact.

  Recording is not possible if the tabs are broken off.
- The positions of the VOLUME, TREBLE and BASS controls on the pre-main amplifier do not affect the recording.

The	R mark indicates operations which	can also be performed on the remote control unit.
1	Press the OPEN/CLOSE button and load the tape onto which you want to record in the cassette tray. Refer to Page 16.	OPENCLOSE  OPENCLOSE
2	Press the DOLBY NR button display the Dolby mode. Refer to Page 8.	The mode changes as follows each time button is pressed:  DOLE OFF B C To record in Dolby NR, set to "B" or "C"

	To record the radio	To record from the component connected to the AUX terminals		To record a CD
	Press the tuner's BAND selector button.	Press the FUNCTION button on the pre-main amplifier to select "MD/AUX".	playe	the disc in the CD er. r to Page 20.
3	BAND	FUNCTION		
	Tune in the station to be recorded. Refer to Page 10.	Starting playback on the MD player, video deck or LD player.		s the CD player's play on to start playback.
4	Press the REC/REC MUTE button.			ecording pause mode is set and the recording tor $(ullet)$ appears on the display.
5	Adjust the recording level.	9 ((  ))	displa Use t	ecording level of the source being played is yed on the level meter. he REC LEVEL control to adjust the recording level. to "Adjusting the REC LEVEL Control" below.)
	Press the play butto (Recording starts.)	on (▶).		For synchronized recording of CDs     co sas
6	The recording indic display.	ator (•) appears on the	6	"CD SRS" appears on the display. (Recording starts.) * When the CD SRS button is pressed, a blank section of 9 seconds is automatically created on the tape before actual recording starts.
<u> </u>			L	
7	To stop recording, pr	ress the stop button ( ).		R

- If the CD player's play button is pressed in the recording pause mode, recording of the CD begins automatically.
- The CD SRS function will not work if the CD player is set to the random play or program mode.

### Adjusting the REC LEVEL Control

The recorded sound will be distorted if the recording level is too high, or there will be much noise if the recording level is too low. It is important to set the recording level to an appropriate setting to achieve a good quality recording.

• Watch how far the level meter lights and adjust the REC LEVEL control accordingly.

#### Optimum recording input level (approximate)

Type-I (normal) tapes:	Meter lights up to 0dB
Type-II (CrO <sub>2</sub> ) tapes:	Meter lights up to +1dB
Type-IV (metal) tapes:	Meter lights up to +3dB

#### --- NOTE: -

The actual recording level differs depending on the source and the type of tape, so make a trial recording first to check the recording level.

#### **About Compact Discs**



Only discs with the mark shown below can be played on the D-F10.

· For CDVs, only the audio part is played. (The video part is not played.)

Disc	Remarks
CD	
CDV	Only the audio part is played.
CD singles (8cm discs)	

#### ■Removing discs from their cases

As shown on the diagram, grasp the outer edge of the disc with your fingers, insert a finger in the hole in the center, press gently, then lift the disc out of the case.



#### ELoading discs in the disc tray



Be sure to load the disc with the labelled side facing up. (Compact discs only play on one side.) For 8cm CDs, set the disc in the sunken section in the center of the tray.

#### NOTES:

- . The disc tray opens when the OPEN/CLOSE button is pressed once and closes when it is pressed again. • When the disc tray is closed, the disc turns automatically for several seconds, then the total number of tracks and total
- playing time of that disc appear on the display.
- The disc tray can also be closed by pressing the play button (▶), in which case playback automatically starts from the first track on the disc (or if tracks are programmed, from the first programmed track).

#### — Handling the Disc Tray -

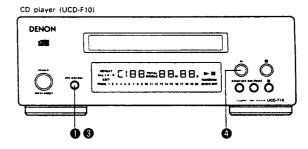
Do not turn off the power, stop the disc tray by hand or pull on it when it is moving. Doing so may damage it.

If the headphones' cord or some other object accidentally gets caught in the disc tray while it is closing and the disc tray stops, press the OPEN/CLOSE button again to open the tray and remove the obstacle.

Do not set objects other than discs on the disc tray. Doing so may damage it.

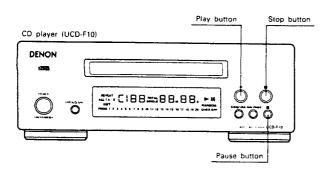


#### Normal Playback



#### Example: Playing a disc containing 15 tracks and with a playing time of 62 minutes, 03 seconds, starting from the first track

The	The 🖪 mark indicates operations which can also be performed on the remote control unit.					
1	Press the OPEN/CLOSE button to open the disc tray.	OPENICLOSE	00 00-00.			
2	Load the CD in the disc tray.					
3	Press the OPEN/CLOSE button. The disc tray closes. The display appears after several seconds.	OPENICLOSE	15 62.03.			
4	Press the play button (▶).	Ċ	0   00-0			



#### Interrupting playback temporarily

Press the pause button (II).



The ">" mark turns off and the "II" mark appears on the display, and playback stops at the poin where the button was pressed.

#### Resuming playback

Press the play button (▶).

The "II" mark turns off and the "\)" mark appears on the display, and playback resumes from the point where the pause button was pressed.

#### Stopping playback

Press the stop button (**a**).

 When a disc is loaded, "DD" is displayed on the track number display for several seconds while the data on the number of tracks and total playing time is being read from the innermost side of the disc, after which the number of tracks and total playing time appear.

 If no disc is loaded, if the disc is upside-down, or if the data cannot be read properly due to scratches or dirt, the display reads as shown below and the disc will not play.

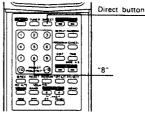
00 00.00.

In addition the regular playback, the D-F10 also offers the following playback functions:

#### OPlaying a specific track.

Direct Search

(Using the remote control unit) Example: Playing the 8th track

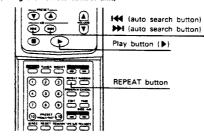


- ① Press the DIRECT button.
- Press the button corresponding to the number of the track 8. "8" appears on the track number display and playback of track number 8 begins.
- When the end of the track is reached, playback continues on the next track.
- To specify a track number of 11 or greater, say track 15, press [+10] then [5], and to specify a track number of 20 or greater, say track 23, press [+10], [+10] then [3]. To play track 20, press [+10] then [10].

#### @Playing a single track repeatedly

Single-track Repeat

(Using the remote control unit)

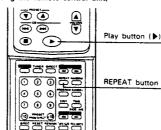


- When the REPEAT button is pressed once. REPEAT 1 appears on the display and the single-track repeat mode is set.
- ② Use the I◀ and ▶ buttons to select the track to be repeated.
- ③ Press the play button (▶) to start playback.
- When the end of the specified track is reached, playback starts over from the beginning of that track.
- The single-track repeat mode can also be set by pressing the REPEAT button once during playback.
- To cancel the single-track repeat mode, press the REPEAT button repeatedly until the "REPEAT" indicator turns off.

#### OPlaying all the tracks repeatedly

All-track Repeat

(Using the remote control unit)



- ① When the REPEAT button is pressed twice, REPEATALL appears on the display and the all-track repeat mode is set.
- Press the play button (>) to start playback.
- The all-track repeat mode can also be set by pressing the REPEAT button twice during playback.
- To cancel the all-track repeat mode, press the REPEAT button to turn the "REPEAT" indicator off.
- If the REPEAT button is pressed during programmed playback, the tracks are played repeatedly in the programmed order.

F10

#### Example: Using a CD containing 15 tracks

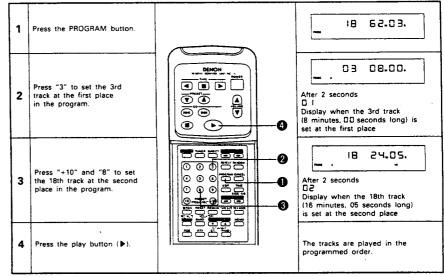
1st press	(1) When pressed during playback:	The single-track repeat mode is set and that track number is displayed on the music calendar.	
	***** D 3		
	(2) When pressed before playback:	The single-track repeat mode is set and that track number is displayed on the music calendar.  Next.  ① Press the play button (▶) to play the first track repeatedly.  ② If playback is started using the direct search buttons on the remote control unit or the ▶/▶ and   ►   ► If playback is started using the direct search buttons on the remote control unit or the ▶/▶ and   ►   ► If yellow is played repeatedly.	
2nd press	(1) When pressed during playback:	The numbers of all the tracks on the disc are displayed on the music calendar, and the all-track repeat mode is set.	
	(2) When pressed before playback:		
3rd press	When pressed during playback:	"REPEAT" and "A" light.	
4th press	When pressed during playback:	"REPEAT" and "A-B" light, and the section between points A and B is played repeatedly.	
B.,	es the REPEAT button again to return to normal playbac		

(Using the remote control unit)

Example: Programming the 3rd track to play first, the 18th track to play second, using a CD containing 18 tracks and with a playing time of 62 minutes, 03 seconds

#### Procedure

A-B Repeat



#### Other operations possible during programmed playback:

Such operations as quick search, pause and skip monitor are also possible during programmed playback.

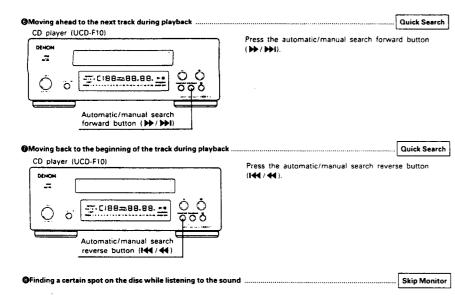
For the quick search function, press the automatic/manual search reverse button (I◄ / ◀ ) to move back to the beginning of the track, then press it again while the time display reads " □□•□□•".

To move ahead to the beginning of the next track, press the automatic/manual search forward button ( >> / >> 1), regardless of the time display.

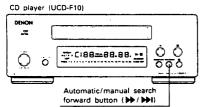
#### --- NOTES: --

- The numbers of the programmed tracks on the music calendar turn off after the tracks have been played.
- If a track with a number of 21 is greater is programmed, the time display will read "--M--S"
- With this CD player, up to 20 tracks with any track number between 1 and 99 can be programmed.
- If a number greater than the total number of tracks on the disc is specified, that number will not be displayed.
- Programming is also possible with the disc tray open. In this case it is possible to program a track number not included
  on the disc, but when the program is played, that track number will be skipped.
- The entire program is cancelled when the OPEN/CLOSE button is pressed.
- If you make a mistake when programming, press the CANCEL button to cancel the mistake. (The last track in the program is cancelled each time the CANCEL button is pressed.)
- The single-track and A-B repeat functions do not work during programmed playback.
- . Set the stop mode when cancelling tracks from the program.





- Use this function to skip through the disc while listening to the sound.
- When the desired spot is reached using the skip monitor function, release the automatic/manual search forward button
   (▶/≯▶I) or automatic/manual search reverse button (I◄(◄) to resume normal playback from that point.
- (1) Forward skip monitor



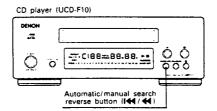
During playback, press and hold in the automatic/manual search forward button ( >> / >> I) to skip through the disc in the forward direction while listening to the sound.

 The track currently being monitored and the elapsed time for that track are indicated on the display.
 If the end of the last track on the disc is reached while pressing the automatic/manual search forward button

 If the end of the last track on the disc is reached while pressing the automatic/manual search forward button (►)/►), "] "] appears on the display and the manual search operation stops.

To continue playback, press and hold in the automatic/manual search reverse button (1◀ / ◀4) until a track number appears on the display, then perform the desired operation.

(2) Reverse skip monitor



- The track currently being monitored and the elapsed time for that track are indicated on the display.
- If the beginning of the first track on the disc is reached while pressing the automatic/manual search reverse button (I+4/+4), "C\_C" appears on the display and the manual search operation stops.

To continue playback, press and hold in the automatic/manual search forward button (>> / >> >) until a track number appears on the display, then perform the desired operation.

During playback, press and hold in the automatic/manual search reverse button (I◀ / ◀ ) to skip through the disc in the reverse direction while listening to the sound.

If the automatic/manual search forward or automatic/manual search reverse button is pressed during programmed playback then released at a track not in the program, that track is played to the end, then the next track in the program is played.

OPlaying the tracks in random order .....

Random Playback

(Using the remote control unit)

• Use this function to play all the tracks on the disc once in random order.



- Press the RANDOM button to turn on the RANDOM indicator, then press the play button to start random playback.
- During playback, simply press the RANDOM button to set the random playback mode.

- The programmed tracks can be played in random order by pressing the RANDOM button when tracks are programmed.
- If the RANDOM button is pressed while the repeat mode is set, the tracks are each played once in random order, then played again in another order, and so on.
- Random playback cannot be set in the single-track or A-B repeat mode.
- While the next track is being searched for, the numbers of all the tracks on the disc are displayed rapidly on the track number display so it is not possible to know which track will be played next.
- The random playback mode is not set when the RANDOM button is pressed during the single-track repeat mode. To set the random playback mode, first cancel the singletrack repeat mode.

-NOTES:

- The total remaining time cannot be displayed during the random playback mode.
- The random playback mode cannot be set during editing.

#### Edited Recording on Sides A and B of a Tape

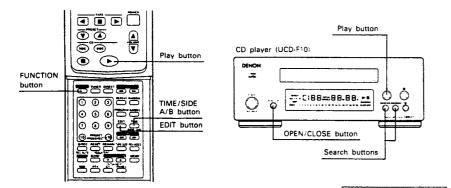
This function allows edited recording according to the size of the tape. (This operation is only possible from the remote control unit.)

- Use this function to efficiently edit the tracks on a CD according to the length (time) of the tape onto which you want to record.
- · Edited recording is possible with discs containing up to 20 tracks.

• Recording the tracks in the same order as on the disc

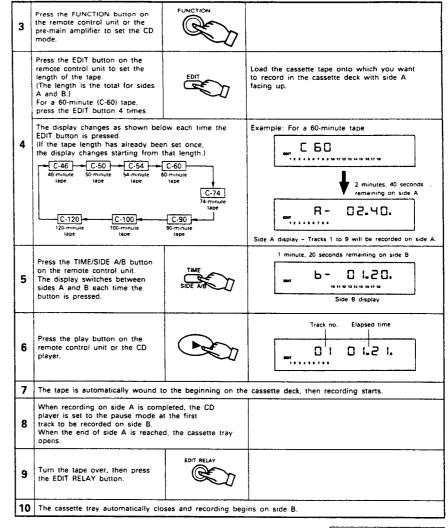
#### NOTES: ---

- · Edited recording is not possible with discs containing more than 20 tracks.
- Load the cassette tape onto which you want to record in the cassette deck with side A on the top before starting the
  editing procedure. The tape is automatically wound to the beginning before recording starts.
- The editing mode is cancelled when the CD player's stop button is pressed.
- Note that even if the tape is slightly longer than the disc's total playing time, it may not be possible to record all the
  tracks on sides A and B because of the combination of tracks to be recorded on the different sides of the tape. "OVER"
  flashes the display if there are tracks which cannot be recorded onto the tape.
- When recording on an already recorded tape, if the tape is longer than the new recording, the previous recording will
  remain at the end of side B, so erase the tape before starting.
- . To protect the recording, do not press the FUNCTION (input selector) button during edited recording.
- During edited recording, only the stop button, POWER switch, and TIME button for the CD player and the TAPE SIZE button, COUNTER button, REMAIN button, stop button, DOLBY NR button, and POWER switch for the cassette deck will function.
- Blank sections of 4 seconds are automatically created between all the selections to make it easier to search for selections on tapes recorded on this system. Since this differs from the actual time between tracks on the CD, the displayed time and the actual remaining time on the tape differ slightly.



Example: Recording a disc containing 18 tracks and a total playing time of 56 minutes on a C-60 cassette tape

	· · · · · · · · · · · · · · · · · · ·		-
1	Press the CD player's OPEN/ CLOSE button to open the disc tray. Load the disc in the disc tray.	OPENICLOSE	00 00.00.
2	Press the OPEN/ CLOSE button to close the disc tray. The display appears after several seconds.	OPEN/CLOSE	18 56.00.



#### @Recording the tracks in a specific order ........

**Automatic Edited Recording** 

Programmed Edited Recording

- ① Program the desired tracks as described in "Programmed Playback" on Page 22.
- ② Follow steps 4 to 6 for automatic edited recording.

#### ---- NOTE -

Programmed edited recording is not possible with discs containing more than 20 tracks.

## 13 AUTO ON FUNCTION

- When the play button or OPEN/CLOSE button on the CD player or cassette deck is pressed while the power is set to the standby mode, the power automatically turns on and the play or open/close operation is performed.
- In the same way, when the tuner preset up/down buttons on the remote control unit is pressed, the power turns on and the corresponding station is tuned in.

## 14 OTHER INFORMATION

#### Cleaning the Heads

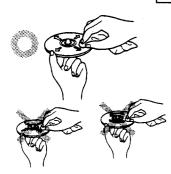
- If the cassette deck's heads are dirty, tapes cannot be played or recorded with good sound quality
- To take full advantage of all the performance this cassette deck has to offer and ensure good quality sound, clean the heads periodically after approximately 10 hours of use, using a commercially available cleaning cassette.

- NOTE -Some commercially available cleaning cassettes are highly abrasive and may damage the heads. Avoid using such cleaning cassettes.

#### Demagnetizing the Heads

- The heads become magnetized after they have been used for an extended period of time or if they are exposed to a magnetic object. This results in noise or a loss of the treble sound.
- If the heads are magnetized, use a commercially available cassette-type head demagnetizer to demagnetize them.

#### Cleaning Discs



Dust, fingerprints or spit on the disc will result in noise or skipping. If the disc is dirty or if the CD player does not operate properly, use the following procedure to clean the

- · Hold the disc with the signal surface (the side opposite the labelled side) facing up, as shown in the diagram.
- · Wipe the disc gently from the center towards the edge (in the direction of the arrow) with a soft cloth.

Do not clean discs with the following:

- · Benzene, alcohol or other solvents
- Cleaner including an abrasive
- · Sprays or cleaners designed for records
- Anti-static

#### - NOTES

- Do not wipe discs in the direction opposite the arrow or in a circular motion as with regular records.
- . The disc's signal surface is easily damaged, so do not wipe it with a hard cloth or rub it strongly

## 15 SPECIFICATIONS

# Pre-main amplifier (UPA-F10)

55W + 55W (4 ohms DIN) Practical maximum output Low frequency adjustment range: 100Hz ±8d8

High frequency adjustment range: 10kHz ±8dB

CD input jacks, tape input/output jacks, Audio input/output jacks:

tuner input jacks, MD/AUX input/output jacks.

processor loop jacks, 6.3mm headphones jack and phono input jacks

AC 230V 50Hz

Power supply: Power consumption: 130W

270 (W) × 96 (H) × 342 (D) mm Maximum external dimensions:

(10-5/8" × 3-25/32" × 13-15/32") (including feet, controls and terminals)

FM: 87.50 MHZ - 108.00 MHZ

4.5kg (9 lbs. 15 oz)

■ Tuner (UTU-F10)

Weight:

Reception frequency band:

AM: 522 kHz - 1611 kHz Reception sensitivity: FM: 1.5 µ/75 ohms

AM: 20 μV FM stereo separation: 40dB (1kHz)

AC 230V, 50Hz Power supply: Power consumption: RW

Maximum external dimensions: 270 (W) × 96 (H) × 318 (D) mm

(10-5/8" × 3-25/32" × 12-33/64") (including feet, controls and terminals)

2.8kg (6 lbs. 3 oz)

■ CD player (UCD-F10)

Weight:

Weight:

Wow & flutter: Below measurable limits (±0.001% W. peak)

44.1 kHz Sampling frequency: Semiconducto Ontical source: AC 230V. 50Hz

Power supply: Power consumption

Maximum external dimensions: 270 (W) × 96 (H) × 315 (D) mm

(10-5/8" × 3-25/32" × 12-13/32") (including feet, controls and terminals)

3.3kg (7 lbs. 5 oz)

■ Cassette deck (UDR-F10)

Horizontal 4-track 2-channel stereo cassette deck Type:

Heads: 1 hard permalloy recording/playback head

1 double-gap ferrite erasing head

Tape speed: 4.75 cm/s

Included circuits: Dolby B and C NR, Dolby HX Pro

Usable tapes: Normal, chrome and metal

AC 230V, 50Hz Power supply

Power consumption: 13W

Maximum external dimensions: 270 (W) × 96 (H) × 313 (D) mm

(10-5/8" × 3-25/32" × 12-21/64")

(including feet, controls and terminals)

3.8kg (8 lbs. 6 oz)

■ Remote control unit (RC-172)

Remote control system: Infrared pulse

Number of buttons:

Power supply:

Two DC 1.5V R6P/AA batteries

Maximum external dimensions: 57 (W) × 197 (H) × 21 (D) mm (2-1/4" × 7-3/4" × 53/64")

130g (including batteries) (Approx. 4.6 oz)

Weight:

Weight:

\* Maximum dimensions include controls, jacks, and covers. (W) = width, (H) = height, (D) = depth

- · For improvement purposes, specifications and functions are subject to change without advanced notice.
- Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Cicensing Corporation. HX Pro originated by Bang & Olufsen.
- ■"DOLBY", the double-D symbol 🔟 and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

## 16 TROUBLESHOOTING

Check the following once more before assuming there is a problem with the system.

#### 1. Are connections proper?

#### 2.1s the system being operated as explained in the operating instructions?

If the system does not seem to be operating properly, check as shown on the table below. If none of these checks apply to the problem, the system may be malfunctioning. Disconnect the power cord immediately and contact your store of purchase.

	Symptom	Cause	Countermeasure	Page
General	Power does not turn on when power switch is pressed.	Power cord is not plugged into a power outlet.	Plug the power cord securely into an outlet.	5
	No sound is produced from the speakers.	VOLUME control is turned down. Headphones are connected. Speaker cords are not securely connected.	Set the control to an appropriate position. Disconnect the headphones. Connect securely.	6 6 5
	No treble sound is produced, or the position of the instru- ments is unclear.	● Speaker polarities (⊕ and ⊖) are inverted.	Connect the speaker cords properly.	5
	A source other than the desired one is heard.	Function is not properly set.	Set the desired function using the FUNC- TION button.	6
Cassette deck	Recording does not start when REC/REC MUTE button is pressed.	No cassette tape is loaded.  Accidental erasure protection tabs are broken off.	Load a cassette tape.     Cover the tab holes with cellophane tape.	16 16
	Sound is broken or no sound is produced during recording and playback.	Heads are dirty.     Cassette tape is defective.	Clean the heads. Replace the cassette tape.	25
	Humming sound is heard while playing cassette tapes.	Noise from a TV. Noise may be produced by some types of TVs.)	Move the TV away from the system.     Turn the TV off.	4 -
	Wow (shaky sound) is heavy during recording or playback.	Capstans or pinch rollers are dirty.	● Clean them.	25
	Hissing sound is heard in FM programs.	Antenna direction is poor.     Signals from the broadcast station are weak.	Change the direction of the antenna.     Install an outdoor antenna.	4
Tuner	Hissing sound is heard in AM programs.	Noise from a TV or interference from a broadcast station.	Turn the TV off.	-
Ē		•	Change the direction of the loop antenna.     Install an outdoor antenna.	4
-	Humming sound is heard in AM programs.	Signals on the power cord are being mod- ulated by the power source frequency.	Insert the power cord in the opposite direction.     Install an outdoor antenna.	- 4
CD player	Total number of tracks not dis- played when disc is loaded.	Disc is loaded upside-down. Disc is dirty. Disc is not of the specified type.	Reload the disc.     Clean the disc.     Replace with a disc of the specified type.	20 25 -
	Nothing happens when operat- ing buttons are pressed. Disc stops in the middle of a track and will not play properly.	Disc is loaded upside-down. Foreign object on disc tray. Disc is dirty. Disc is scratched,	Reload the disc. Remove the disc and the foreign object. Clean the disc. Replace with an unscratched disc.	20 20 25 -
	Sound is broken.	Dirt, fingerprints, spittle, etc. on disc. Disc is scratched. Player is in an unstable place and vibrates strongly.	Clean the disc. Replace with an unscratched disc. Place the player in a stable place with no vibrations.	25 - -
	Humming sound is heard when disc is played.	Signals on the power cord are being mod- ulated by the power source frequency.	Insert the power cord in the opposite direction.	-

#### • Protector circuit

The UPA-F10 is equipped with a high speed protector circuit.

This circuit protects internal parts from being damaged by strong currents generated in the set should the set be operated when the speaker terminals are incompletely connected or short-circuited.

If this protector circuit is activated, a relay sound is produced, the output to the speakers is interrupted, and the function and power LEDs flash to indicate that there is a problem. If this should happen, unplug the power cord, check the speaker connections, then plug in the power cord and turn the power back on. After several seconds, a relay sound is heard and the set starts operating properly.

The set may not operate properly due to such external influences as lightning or static electricity. If this happens, either turn
off the power with the pre-main amplifier's SYSTEM POWER switch or unplug the power cord, wait approximately 5
seconds, then plug the power cord back in.